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Product Datasheet

KIRA6

FBM-10-4886

Article Name	KIRA6
Biozol Catalog Number	FBM-10-4886
Supplier Catalog Number	10-4886
Alternative Catalog Number	FBM-10-4886-5MG,FBM-10-4886-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	IRE1alpha inhibitor...
Molecular Weight	518.54
Purity	>98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[1589527-65-0]
Formula	C28H25F3N6O
Application Notes	KIRA6 is an allosteric inhibitor of the endoplasmic reticulum protein IRE1alpha.¹ It inhibits IRE1alpha kinase activity (IC₅₀ = 0.60 μM), XBP1 RNA cleavage, Ins2 RNA cleavage, and oligomerization. KIRA6 prevented cell death during ER stress/UPR in vivo. It reduced stress-induced inflammation caused by immunogenic cell death via targeting of HSP60.² KIRA6 abolished neuroinflammation and neuronal cell death caused by PAD4 overexpression in traumatic brain injury.³ It also was shown to block leukotriene biosynthesis in human phagocytes⁴ and inhibit mast cells⁵. KIRA6 blocked the induction of myeloid-derived suppressor cells and overcame resistance to anti-PD-1 therapy in 4T1 tumor cells.⁶